



**BASIC IMAGERY
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER**

**DEPLOYMENT AT SS-9 ICBM COMPLEXES
ALEYSK
DOMBAROVSKIY
IMENI GASTELLO
KARTALY
UZHUR
ZHANGIZ-TOBE**

**DEPLOYED STRATEGIC SSM FACILITIES
USSR
MAY 1970**

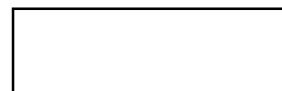
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INSTALLATION OR ACTIVITY NAME

Deployment at SS-9 ICBM Complexes

COUNTRY

UR

UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

See below

BE NUMBER

See below

COMIREX NO.

See below

NIETB NO.

See below

MAP REFERENCE

Various

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NEGATION DATE (if required)

Various

ComplexCoordinates

Aleysk	52-29N 082-42E
Dombarovskiy	50-58N 059-44E
Imeni Gastello	51-03N 066-14E
Kartaly	52-59N 060-31E
Uzhur	55-15N 089-30E
Zhangiz-Tobe	49-13N 081-09E

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ABSTRACT

The Soviet SS-9 missile system is deployed exclusively at six complexes in central USSR: Aleysk, Dombarovskiy, Imeni Gastello, Kartaly, Uzhur, and Zhangiz-Tobe. Data relating to estimated construction starts, construction timing, site completion dates, and site coordinates is recorded in this publication. Location maps showing launch site deployment at each of the six complexes are also included.

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The information is current

INTRODUCTION

The SS-9 missile is deployed in groups of six at six complexes in central USSR (Figure 1). The rate of deployment since its onset in early 1964 is shown in Figure 2.

The magnitude of deployment at these six complexes as of 1 March 1970 is as follows:

<u>Complex</u>	<u>Identified Groups</u>	<u>Identified Sites</u>
Aleysk	5	30
Dombarovskiy	10	60
Imeni Gastello	8	48
Kartaly	6	36
Uzhur	9	54
Zhangiz-Tobe	8	47
	46	275

In addition there is one site at the rail-to-road transfer point ¹ of each of the six complexes, which is primarily for training but may have an operational capability.

In addition to its launch sites, each complex has the following components: a headquarters command and control facility, an alternate command and control facility,² a rail-to-road transfer point, and complex support facilities.

Eight new groups -- two at each of three complexes, Dombarovskiy, Imeni Gastello, and Zhangiz-Tobe, and one each at Aleysk and Uzhur -- have been identified during 1969. No new groups have been identified at the Kartaly complex.

An alternate command and control facility has been identified at each of the six complexes. This facility is complete at the Uzhur complex, while at the other five complexes it is under construction.

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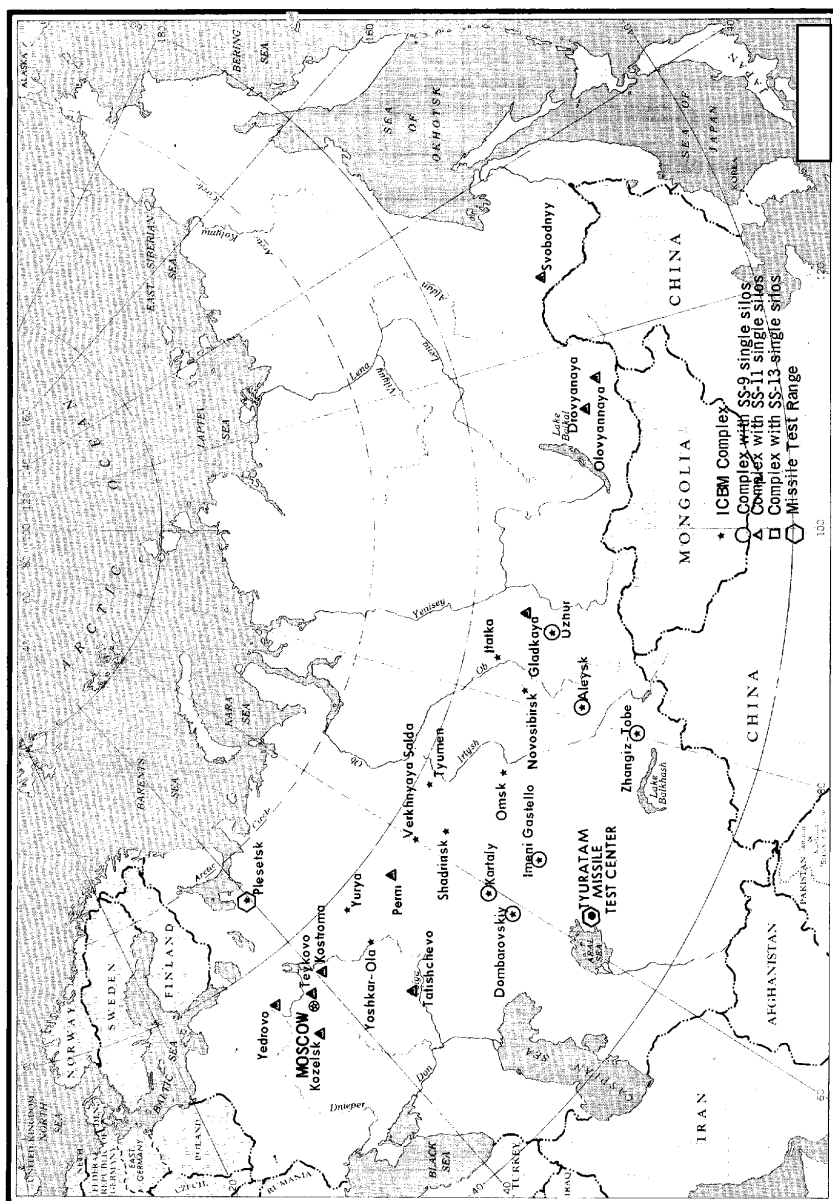


FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES. SS-9 complexes shown in red.

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BASIC DESCRIPTION

A summary of significant findings at each type IIIC (SS-9) complex follows:

Aleysk ICBM Complex

The Aleysk ICBM Complex³ (Figure 3 and Table 1) is approximately 150 nautical miles (nm) south of Novosibirsk. The complex has a total of 30 launch sites in five launch groups, designated A through E. Deployment was first identified at the complex in [redacted] when launch site 1 in Launch Group A was observed in an early stage of construction. The latest of the five groups, the E group, was identified [redacted]. The other four groups -- A through D -- are complete, with the D group being completed in [redacted].

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The L-shaped electronics device at the training site (14X) was observed complete in [redacted]. This is the only SS-9 training site with an L-shaped electronics device and, as yet, its function is unknown.

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The alternate command and control facility is adjacent to launch site 22D and is in the midstage of construction.

Dombarovski ICBM Complex

The Dombarovski ICBM Complex (Figure 4 and Table 2), in the southern Urals region, approximately 45 nm east-southeast of the city of Orsk, is the largest of the SS-9 complexes, with a total of 60 launch sites in ten launch groups (A through J). Since the latest report⁴ two launch groups have been identified -- the I group in May and the H group [redacted].

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Seven of the launch groups, A through G, are complete, with the G group being completed [redacted]. The H group when last observed [redacted] was in the midstage of construction.

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The alternate command and control facility is adjacent to launch site 44G and is in the midstage of construction.

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Table 1. Data on Facilities at the Aleysk ICBM Complex

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Facility	Completion or Constr Status	Geographic Coords Lat Long	200 Chart
Aleysk ICBM Complex		52-29-20N 082-42-08E	25HL
Hq com & control & rec fac		52-29-30N 082-44-59E	25HL
Alternate com & control fac (at L/S 22D) (28 nm ESE of HCC)	Mid	52-23-32N 083-29-15E	25HL
Transmit- ting fac (28 nm WNW of HCC)	--	52-39-55N 082-00-45E	25HL
Complex support facilities	NA	52-28-59N 082-43-52E	25HL
Rail-to- road trans- fer point	NA	52-28-20N 082-41-34E	25HL

Launch Group & Site	Type	Azi- muth	Geographic Coords Lat Long	200 Chart	Approx Elevation (meters) (feet)
Group A					
1A	IIC	310	52-27-34N 082-35-51E	25HL	201 660
2A	IIC	310	52-30-02N 082-40-27E	25HL	201 660
3A*	IIC		52-33-33N 082-42-15E	25HL	201 660
5A	IIC	310	52-35-37N 082-30-04E	25HL	201 660
6A	IIC	310	52-36-40N 082-35-19E	25HL	201 660
12A	IIC	310	52-33-07N 082-34-52E	25HL	201 660
Group B					
7B	IIC	310	52-24-02N 082-46-38E	25HL	201 660
8B*	IIC		52-18-12N 082-49-42E	25HL	252 825
9B	IIC	310	52-15-18N 082-38-37E	25HL	252 825
10B	IIC	310	52-10-18N 082-35-47E	25HL	252 825
11B	IIC	310	52-12-06N 082-43-36E	25HL	252 825
13B	IIC	310	52-20-00N 082-41-11E	25HL	201 660
Group C					
15C	IIC		52-22-21N 082-55-57E	25HL	252 825
16C	IIC		52-29-19N 082-57-24E	25HL	205 673
17C	IIC		52-31-33N 083-05-56E	25HL	201 660
18C*	IIC		52-24-05N 083-05-22E	25HL	213 700
19C	IIC		52-28-28N 083-11-58E	25HL	207 680
20C	IIC		52-35-01N 083-13-42E	25HL	201 660
Group D					
21D	IIC		52-29-41N 083-36-18E	25HL	295 640
22D*	IIC		52-23-27N 083-29-15E	25HL	201 660
23D	IIC		52-25-00N 083-39-55E	25HL	151 495
24D	IIC		52-18-17N 083-24-42E	25HL	201 660
25D	IIC		52-19-13N 083-38-40E	25HL	201 660
26D	IIC		52-15-32N 083-31-57E	25HL	152 500
Group E					
27E	IIC		52-47-13N 083-35-20E	25HL	201 660
28E	IIC		52-43-30N 083-29-24E	25HL	201 660
29E*	IIC		52-38-16N 083-28-27E	25HL	201 660
30E	IIC		52-39-48N 083-37-38E	25HL	201 660
31E	IIC		52-33-44N 083-24-55E	25HL	201 660
32E	IIC		52-34-25N 083-36-54E	25HL	201 660
14X (train- ing site)			52-28-18N 082-40-47E	25HL	201 660

*Control site.

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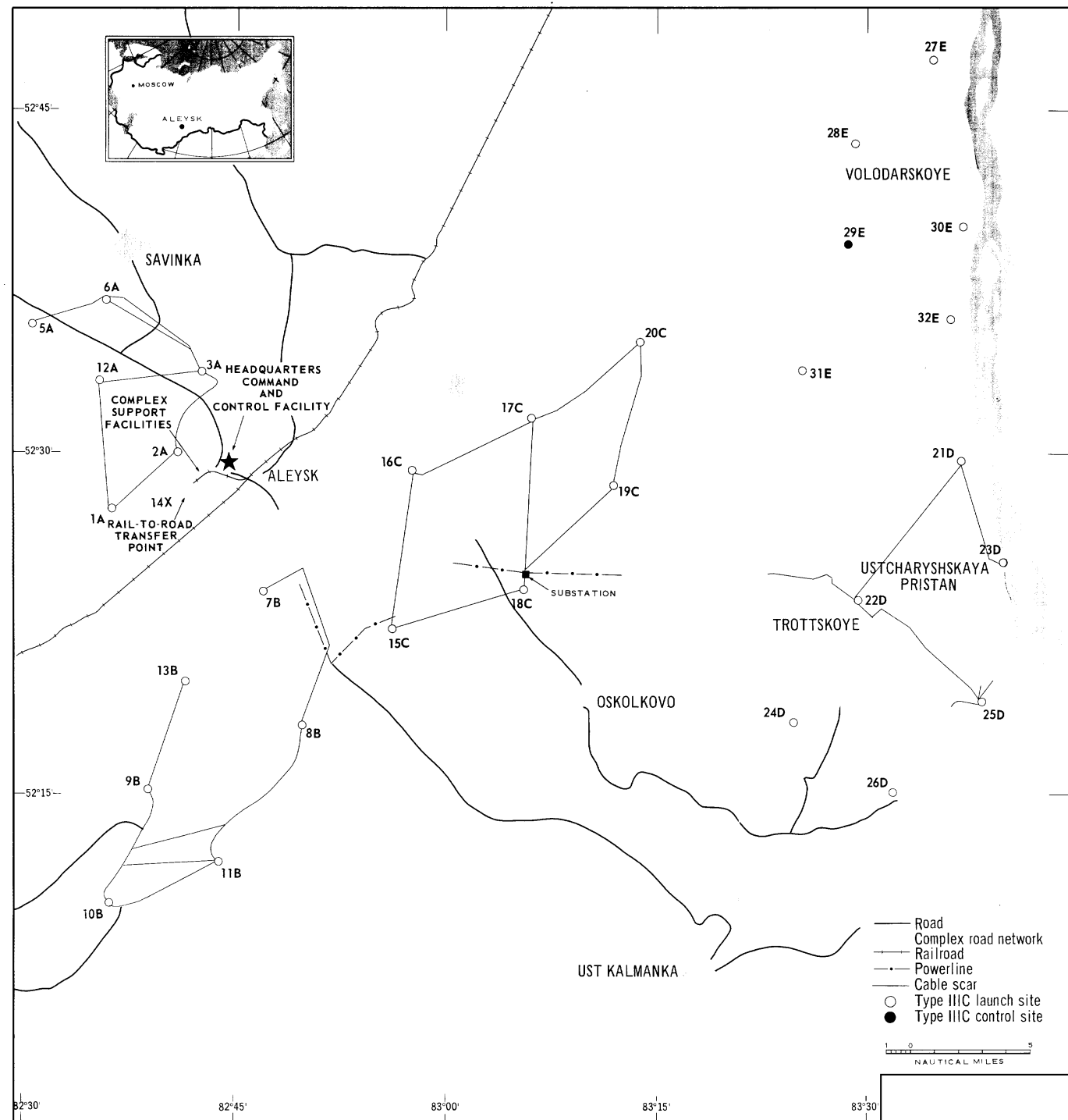


FIGURE 3. ALEYSK ICBM COMPLEX, USSR

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Table 2. Data on Facilities at the Donbasovskiy ICBM Complex

Facility	Completion of Const. Status	Geographic Coords. Lat. Long.	300 Chart
Donbasovskiy ICBM Complex HQ command & control & receiving fac.	---	50-58-18N 030-44-40E	5A101L
Alternates command & control facility (so L/R HIC) (20 mi N of HIC) (31 mi SW of HIC)	---	51-01-43N 030-03-12E	101L
Transmitting site Complex sup- port facili- ties Rail-to-road transfer point	Mid ---	51-31-26N 029-55-18E 50-48-21N 029-50-50E 51-01-52N 029-40-19E 51-01-51N 029-48-00E	5HL 101L 101L

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Launch Group & Site	Type	Anti-miss	Geographic Coords Lat. Long.	300 Chart	Approx Elevation (meters) (feet)	Launch Group & Site	Type	Anti-miss	Geographic Coords Lat. Long.	300 Chart	Approx Elevation (meters) (feet)	
Group A						Group F						
1A	ICB		50-58-18N 030-37-50E	101L	299 980	35F	ICB		51-15-30N 030-00-28E	5HL	305 1,000	
2A	ICB		51-01-47 059 41-13E	101L	299 980	36F	ICB		51-17-12N 030-40-25E	5HL	299 980	
3A*	ICB		51-04-54N 030-37-40E	101L	299 980	37**	ICB		51-19-38N 030-52-45E	5HL	299 980	
4A	ICB		51-11-58N 030-37-53E	101L	299 980	38F	ICB		51-22-40N 030-34-30E	5HL	304 1,000	
5A	ICB		51-04-09N 030-28-40E	101L	299 980	39F	ICB		51-22-18N 030-43-05E	5HL	299 980	
7A	ICB		51-09-27N 030-41-02E	101L	299 980	40F	ICB		51-25-15N 030-40-43E	5HL	299 980	
Group B						Group G						
8B	ICB		51-02-07N 030-57-15E	101L	305 1,000	42G	ICB		51-25-20N 030-00-27E	5HL	305 1,000	
9B*	ICB		51-03-31N 030-50-20E	101L	305 1,000	43G	ICB		51-26-07N 030-55-25E	5HL	305 1,000	
10B	ICB		51-09-20N 030-44-35E	101L	299 980	44G*	ICB		51-31-21N 030-38-00E	5HL	305 1,000	
11B	ICB		51-12-24N 030-39-43E	101L	299 980	45G	ICB		51-30-14N 030-10-32E	5HL	305 1,000	
12B	ICB		51-10-04N 030-57-55E	101L	299 980	46G	ICB		51-30-22N 030-04-44E	5HL	299 980	
13B	ICB		51-05-44N 030-04-37E	101L	299 980	47G	ICB		51-31-44N 030-47-47E	5HL	305 1,000	
Group C						Group H						
14C	ICB		50-50-24N 030-35-39E	101L	274 900	49H	ICB	Under	51-03-17N 030-20-04E	101L	305 1,000	
15C*	ICB		50-45-10N 030-36-34E	101L	299 980	49H*	ICB	Under	50-57-28N 030-20-20E	101L	305 1,000	
16C	ICB		50-52-50N 030-40-40E	101L	299 980	50H	ICB	Under	50-53-23N 030-31-30E	101L	305 1,000	
17C	ICB		50-40-38N 030-40-14E	101L	299 980	51H	ICB	Under	50-53-14N 030-41-11E	101L	305 1,000	
18C	ICB		50-40-30N 030-40-14E	101L	299 980	52H	ICB	Under	50-54-42N 030-36-50E	101L	305 1,000	
19C	ICB		50-30-26N 030-30-08E	101L	299 980	53H	ICB	Under	51-04-12N 030-36-42E	101L	305 1,000	
Group D						Group I						
21D*	ICB		50-51-48N 030-59-58E	101L	307 1,100	54I	ICB	Under	51-16-04N 030-17-51E	5HL	299 980	
22D	ICB		50-40-38N 030-54-00E	101L	299 1,180	55I	ICB	Under	51-14-08N 030-05-10E	5HL	299 980	
23D	ICB		50-44-47N 030-00-41E	101L	299 1,180	57I	ICB	Under	51-20-31N 030-09-55E	5HL	299 980	
24D	ICB		50-51-20N 030-41-30E	101L	299 1,180	58I	ICB	Under	51-12-30N 030-20-20E	5HL	299 980	
25D	ICB		50-46-41N 030-13-20E	101L	299 1,180	59I	ICB	Under	51-22-51N 030-22-04E	5HL	299 980	
26D	ICB		50-52-40N 030-10-12E	101L	299 1,180	60I	ICB	Under	51-20-37N 030-25-02E	5HL	299 980	
Group E						Group J						
28E	ICB	305	51-10-28N 030-13-37E	101L	305 1,000	61J	ICB	Under	51-16-47N 030-01-25E	5HL	307 1,200	
29E	ICB	305	51-11-09N 030-22-52E	101L	305 1,000	62J	ICB	Under	51-18-20N 030-43-47E	5HL	307 1,200	
30E	ICB	305	51-08-42N 030-21-07E	101L	305 1,000	63J	ICB	Under	51-14-08N 030-05-30E	5HL	307 1,200	
31E	ICB	305	51-08-38N 030-13-21E	101L	299 980	64J	ICB	Under	51-09-18N 030-32-54E	5HL	307 1,200	
32E	ICB	305	50-58-28N 030-24-00E	101L	305 1,000	65J	ICB	Under	51-12-17N 030-05-25E	5HL	307 1,200	
34E	ICB	305	50-58-28N 030-14-10E	101L	305 1,000	66J	ICB	Under	51-08-41N 030-40-03E	5HL	307 1,200	
						Training site 33X						
						51-01-00N 030-45-47E						304 1,000

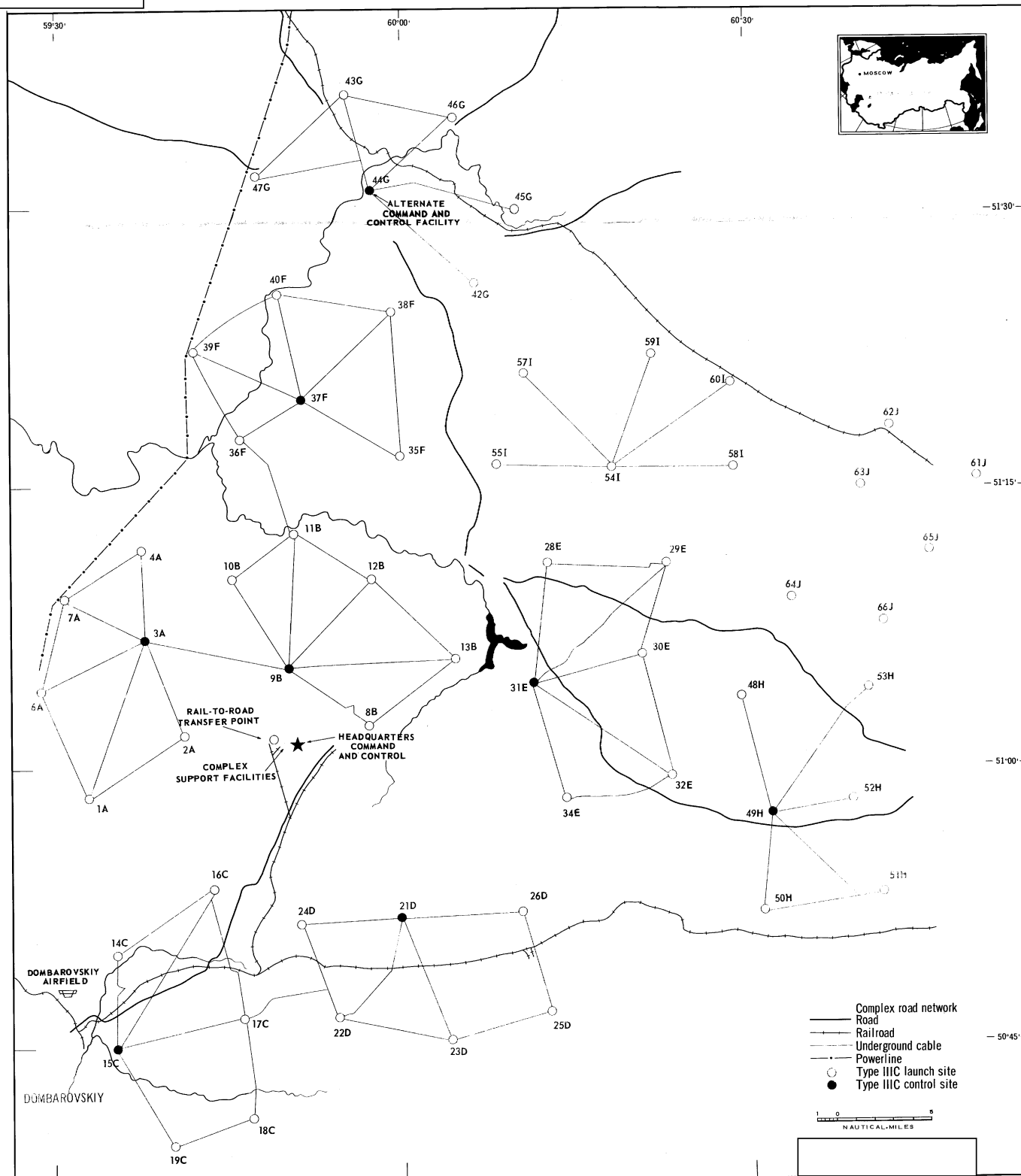


FIGURE 4. DOMBAROVSKIY ICBM COMPLEX, USSR

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Table 3. Data on Facilities at the Imeni Gastello ICBM Complex

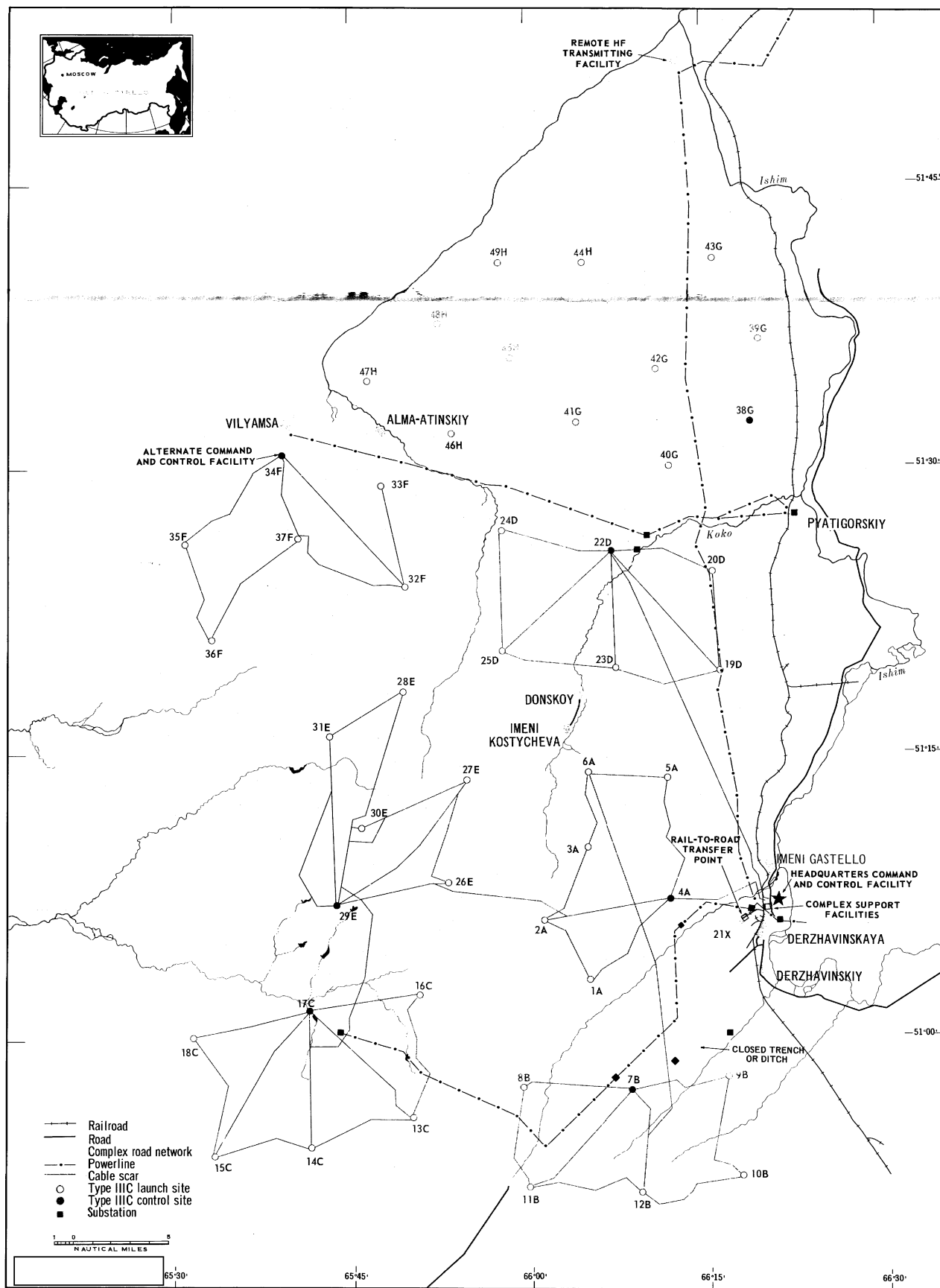
Facility	Geographic Coords		200 Chart
	Lat	Long	
Imeni Gastello ICBM Complex	51-03-30N	066-14-00E	8HL
Hq com control & receiving fac	51-07-26N	066-20-19E	8HL
Alternate com & control fac (at Launch Site 34F) (36 nm NW of HCC)	51-31-12N	065-39-57E	3HL
Transmitting facility (46 nm N of HCC)	51-51-40N	066-13-53E	3HL
Complex support facilities	51-06-49N	066-17-56E	8HL
Rail-to-road transfer point	51-06-28N	066-16-44N	8HL

Launch Group & Site	Type	Azi-muth	Geographic Coords		200 Chart	Approx Elevation (meters) (feet)	
			Lat	Long			
Group A							
1A	IHC		51-03-22N	066-05-07E	8HL	274	900
2A	IHC		51-06-34N	066-01-01E	8HL	305	1,000
3A	IHC		51-10-19N	066-04-50E	8HL	305	1,000
4A*	IHC		51-07-39N	066-11-38E	8HL	274	900
5A	IHC		51-13-53N	066-11-38E	8HL	274	900
6A	IHC		51-14-11N	066-05-00E	8HL	305	1,000
Group B							
7B*	IHC		50-57-35N	066-08-14E	8HL	305	1,000
8B	IHC		50-57-47N	065-59-07E	8HL	305	1,000
9B	IHC		50-58-15N	066-16-19E	8HL	274	900
10B	IHC		50-53-05N	066-17-22E	8HL	305	1,000
11B	IHC		50-52-30N	065-50-30E	8HL	305	1,000
12B	IHC		50-52-14N	066-08-55E	8HL	274	900
Group C							
13C	IHC		50-58-18N	065-49-32E	8HL	305	1,000
14C	IHC		50-54-48N	065-41-18E	8HL	244	800
15C	IHC		50-54-31N	065-33-09E	8HL	244	800
16C	IHC		51-02-44N	065-50-26E	8HL	259	850
17C*	IHC		51-02-02N	065-41-16E	8HL	183	600
18C	IHC		51-00-38N	065-31-33E	8HL	244	800
Group D							
19D	IHC		51-19-26N	066-16-20E	3HL	274	900
20D	IHC		51-24-38N	066-15-47E	3HL	274	900
22D*	IHC		51-25-49N	066-07-10E	3HL	274	900
23D	IHC		51-19-36N	066-06-28E	3HL	274	900
24D	IHC		51-27-03N	065-57-58E	3HL	274	900
25D	IHC		51-20-39N	065-57-56E	3HL	274	900
Group E							
26E	IHC	305	51-08-37N	065-53-03E	3HL	305	1,000
27E	IHC	305	51-13-54N	065-54-50E	3HL	305	1,000
28E	IHC	305	51-18-35N	065-49-34E	8HL	305	1,000
29E*	IHC	305	51-07-28N	065-43-38E	3HL	305	1,000
30E	IHC	305	51-11-34N	065-45-46E	3HL	305	1,000
31E	IHC	305	51-16-20N	065-43-25E	3HL	274	900
Group F							
32F	IHC	Undet	51-24-09N	065-49-47E	3HL	305	1,000
33F	IHC	Undet	51-29-30N	065-45-26E	3HL	274	900
34F*	IHC	Undet	51-31-19N	065-39-46E	3HL	274	900
35F	IHC	Undet	51-26-29N	065-31-22E	3HL	305	1,000
36F	IHC	Undet	51-21-28N	065-33-30E	3HL	305	1,000
37F	IHC	Undet	51-26-33N	065-41-06E	3HL	305	1,000
Group G							
38G	IHC	Undet	51-39-33N	066-18-47E	3HL	274	900
39G*	IHC	Undet	51-36-49N	066-19-57E	3HL	243	800
40G	IHC	Undet	51-30-05N	066-12-07E	3HL	274	900
41G	IHC	Undet	51-32-51N	066-05-11E	3HL	274	900
42G	IHC	Undet	51-35-35N	066-11-31E	3HL	274	900
43G	IHC	Undet	51-40-40N	066-18-08E	3HL	243	800
Group H							
44H	IHC	Undet	51-41-19N	066-06-39E	3HL	274	900
45H	IHC	Undet	51-37-38N	066-01-34E	3HL	274	900
46H	IHC	Undet	51-33-27N	065-56-10E	3HL	274	900
47H	IHC	Undet	51-35-37N	065-46-56E	3HL	274	900
48H	IHC	Undet	51-38-36N	065-53-36E	3HL	274	900
49H	IHC	Undet	51-42-06N	065-58-27E	3HL	274	900
Training Site 21X	IHC		51-06-17N	066-16-01E	8HL	244	800

* Control site

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Table 4. Data on Facilities at the Kartaly ICBM Complex

Facility		Completion or Constr Status	Geographic Coords Lat Long		200 Chart	
Kartaly ICBM Complex		--	52-59-20N 060-31-40E		17HL	
Hq command & control facility & receiv- ing fac		--	53-02-24N 060-36-23E		17HL	
Alternate com & control fac (at Launch Site 32E) (22 nm SW of HCC)		Mid	52-42-39N 060-24-32E		22HL	
Transmitting fac (30 nm NE of HCC)		--	53-24-32N 060-57-25E		17HL	
Complex support facilities		--	53-02-23N 060-36-25E		17HL	
Rail-to- road transfer point		--	53-01-10N 060-34-20E		17HL	

Launch Group & Site	Type	Azi- muth		Geographic Coords Lat Long		200 Chart		Approx Elevation			
								(meters)	(feet)		
Group A											
1A*	IHC	285		53-01-34N 060-25-38E		17HL		366	1,200		
2A	IHC	285		52-56-29N 060-31-31E		17HL		335	1,100		
3A	IHC	285		52-55-51N 060-23-58E		17HL		366	1,200		
4A	IHC	285		52-51-27N 060-27-02E		17HL		305	1,000		
5A	IHC	285		53-00-05N 060-15-26E		17HL		366	1,200		
6A	IHC	285		53-04-21N 060-18-35E		17HL		366	1,200		
Group B											
7B	IHC			53-09-19N 060-41-28E		18HL		305	1,000		
8B*	IHC			53-08-10N 060-32-33E		17HL		305	1,000		
10B	IHC			53-09-11N 060-23-53E		17HL		366	1,200		
11B	IHC			53-12-37N 060-32-29E		17HL		366	1,200		
12B	IHC			53-14-08N 060-39-13E		17HL		305	1,000		
13B	IHC			53-15-40N 060-23-25E		17HL		366	1,200		
Group C											
14C*	IHC	285		53-00-35N 060-46-37E		18HL		274	900		
15C	IHC	285		52-57-37N 060-39-04E		18HL		305	1,000		
18C	IHC	285		52-51-09N 060-38-29E		18HL		305	1,000		
19C	IHC	285		52-53-39N 060-46-23E		18HL		305	1,000		
20C	IHC	285		52-57-57N 060-55-20E		18HL		274	900		
21C	IHC	285		52-51-37N 060-55-00E		18HL		274	900		
Group D											
24D	IHC	290		52-43-53N 060-34-00E		22HL		305	1,000		
25D	IHC	290		52-41-32N 060-41-42E		23A		305	1,000		
26D	IHC	290		52-36-15N 060-45-59E		23A		305	1,000		
28D	IHC	290		52-46-36N 060-42-17E		23A		305	1,000		
29D*	IHC	290		52-36-29N 060-36-23E		23A		305	1,000		
30D	IHC	290		52-31-20N 060-40-27E		23A		305	1,000		
Group E											
31E	IHC	290		52-47-24N 060-20-30E		17HL		366	1,200		
32E*	IHC	290		52-42-35N 060-24-22E		22HL		305	1,000		
34E	IHC	290		52-46-57N 060-13-01E		22HL		366	1,200		
36E	IHC	290		52-42-17N 060-15-55E		22HL		366	1,200		
37E	IHC	290		52-35-58N 060-22-50E		22HL		366	1,200		
38E	IHC	290		52-35-55N 060-13-59E		22HL		366	1,200		
Group F											
39F	IHC	290		53-04-34N 060-46-18E		18HL		274	900		
40F	IHC	290		53-10-51N 060-50-07E		18HL		274	900		
41F*	IHC	290		53-03-39N 060-57-30E		18HL		0274	900		
42F	IHC	290		53-03-00N 061-07-00E		18HL		0243	800		
46F	IHC	290		53-07-23N 061-14-00E		18HL		0243	800		
47F	IHC	290		53-08-31N 061-03-31E		18HL		0243	800		
Training site 27X	IHC			53-00-55N 060-33-26E		17HL		335	1,100		
Dummy site A		NA		52-52N 060-19E		17HL		305	1,000		
Dummy site B		NA		52-52N 060-09E		17HL		366	1,200		

*Control site.

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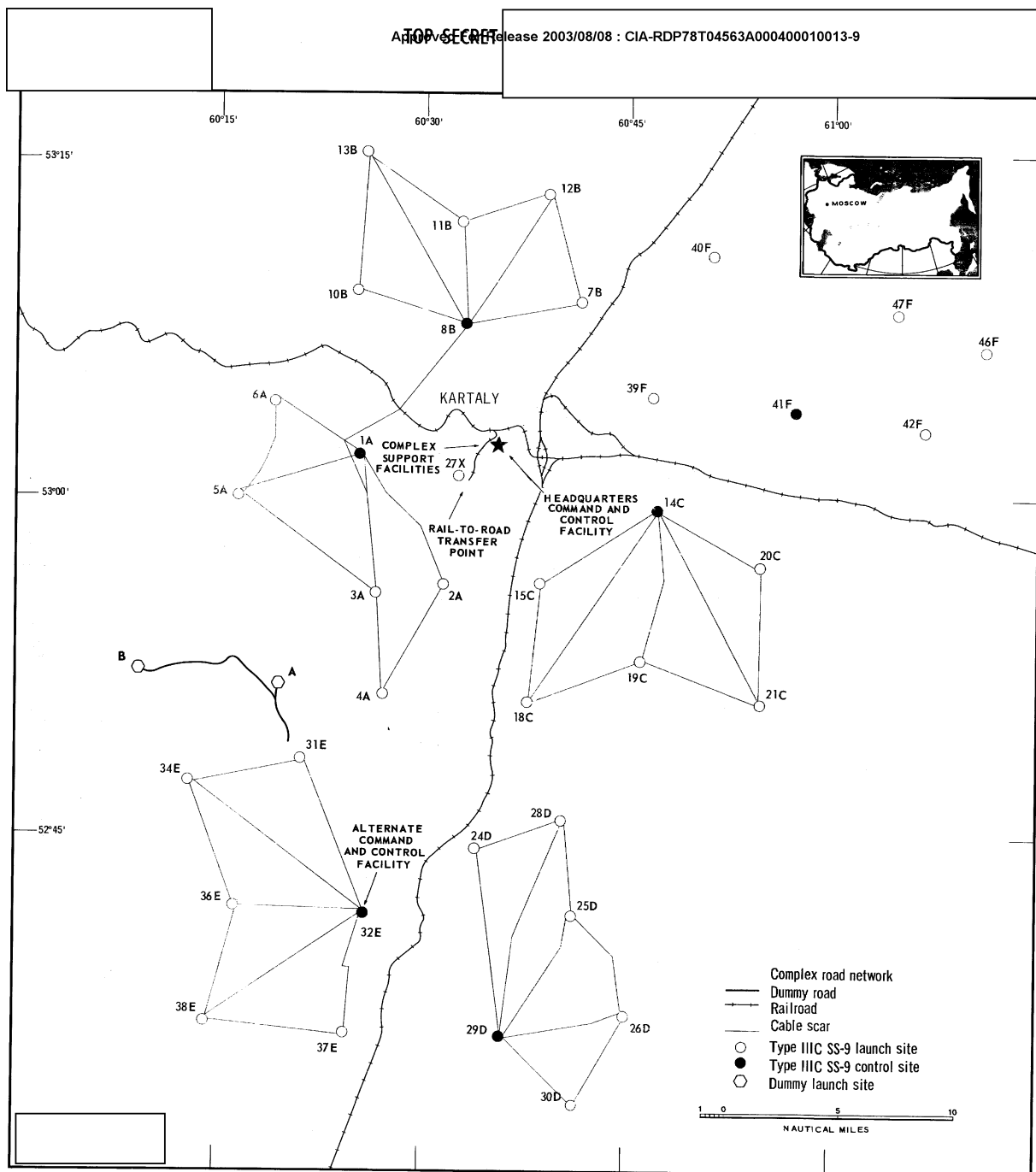


FIGURE 6. KARTALY ICBM COMPLEX, USSR

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Table 6. Data on Facilities at the Ushur ICBM Complex

Facility	Geographic Coords Lat Long	200 Chart
Ushur ICBM Complex Ho room & control & receiving fac	55-15-35N 089-30-30E	4HL
Alternate com & control fac (at Launch Site 34F) (18 mi SSE of HCC)	55-17-14N 089-40-13E	4HL
Transmitting Facility 16 mi NNE of HCC)	55-12-18N 090-14-08E	4HL
Compl'ns support Facilities	56-08-53N 090-25-00E	4HL
Build- up launcher point	55-17-12N 089-49-30E	4HL
	58-16-00N 089-44-31E	4HL

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Launch Group & Site	Type	Anti- missile	Geographic Coords Lat Long	200 Chart	Approx Elevation (feet)	Launch Group & Site	Type	Geographic Coords Lat Long	200 Chart	Approx Elevation (feet)
Group A										
1A	ICB		55-19-47N 089-43-02E	4HL	386	380	ICB	55-20-00N 090-16-04E	4HL	610
2A	ICB		55-17-12N 089-33-07E	4HL	386	380	ICB	55-16-01N 090-16-04E	4HL	386
3A	ICB		55-19-11N 089-33-47E	4HL	386	380	ICB	55-13-24N 090-13-01E	4HL	386
4A	ICB		55-16-50N 089-26-44E	4HL	386	380	ICB	55-11-47N 090-20-30E	4HL	437
5A	ICB		55-19-29N 089-33-36E	4HL	386	380	ICB	55-16-35N 090-14-38E	4HL	488
6A	ICB		55-24-53N 089-38-48E	4HL	427	400	ICB	55-30-45N 090-25-18E	4HL	637
Group B										
7B	ICB		55-22-15N 089-26-55E	4HL	600	570	ICB	55-28-37N 090-32-53E	4HL	627
8B	ICB		55-18-47N 089-19-42E	3HL	610	2000	ICB	55-10-14N 090-32-30E	4HL	386
9B	ICB		55-12-44N 089-21-56E	3HL	590	1400	ICB	55-13-17N 090-31-35E	4HL	427
10B	ICB		55-20-12N 089-38-10E	3HL	590	1400	ICB	55-16-06N 090-14-30E	4HL	411
11B	ICB		55-15-18N 089-11-19E	3HL	514	1700	ICB	55-21-15N 090-25-25E	4HL	288
14B	ICB		55-24-53N 089-38-48E	3HL	427	1400	ICB	55-21-38N 090-14-59E	4HL	488
Group C										
12C*	ICB	315	55-08-51N 089-38-14E	9HL	500	1600	ICB	55-28-35N 089-28-18E	4HL	533
13C	ICB	315	55-11-58N 089-42-10E	4HL	303	1400	ICB	55-29-21N 089-20-50E	4HL	386
14C	ICB	315	55-04-00N 089-40-50E	9HL	427	1400	ICB	55-34-08N 089-30-13E	4HL	305
15C	ICB	315	55-01-18N 089-34-08E	9HL	380	1400	ICB	55-34-00N 089-20-20E	4HL	427
16C	ICB	315	55-02-00N 089-43-39E	9HL	442	1600	ICB	55-37-52N 089-20-40E	4HL	333
18C	ICB	315	54-56-55N 089-40-52E	9HL	500	1600	ICB	55-39-45N 089-24-21E	4HL	488
Group D										
20D	ICB		55-00-09N 089-16-19E	8HL	610	2000	ICB	55-34-43N 089-56-05E	4HL	351
21D*	ICB		55-03-17N 089-24-09E	9HL	514	1700	ICB	55-28-09N 089-43-44E	4HL	386
22D	ICB		54-56-22N 089-27-14E	9HL	610	2000	ICB	55-10-48N 089-40-04E	4HL	386
23D	ICB		54-55-56N 089-15-14E	8HL	640	2100	ICB	55-07-39N 089-48-40E	4HL	305
24D	ICB		55-07-00N 089-18-23E	8HL	484	1600	ICB	55-20-40N 089-27-15E	4HL	351
25D	ICB		55-09-09N 089-20-54E	9HL	610	2000	ICB	55-38-53N 089-40-47E	4HL	351
Group E										
26E	ICB		55-19-10N 089-57-21E	4HL	514	1700	ICB	55-16-15N 089-44-43E	4HL	500
27E*	ICB		55-14-38N 089-55-01E	4HL	394	1200				
28E	ICB		55-10-02N 089-54-14E	9HL	457	1700				
29E	ICB		55-00-47N 090-00-30E	4HL	514	1700				
30E	ICB		55-16-18N 090-04-31E	4HL	380	1400				
31E	ICB		55-11-10N 090-08-13E	9HL	427	1400				

*Control site.

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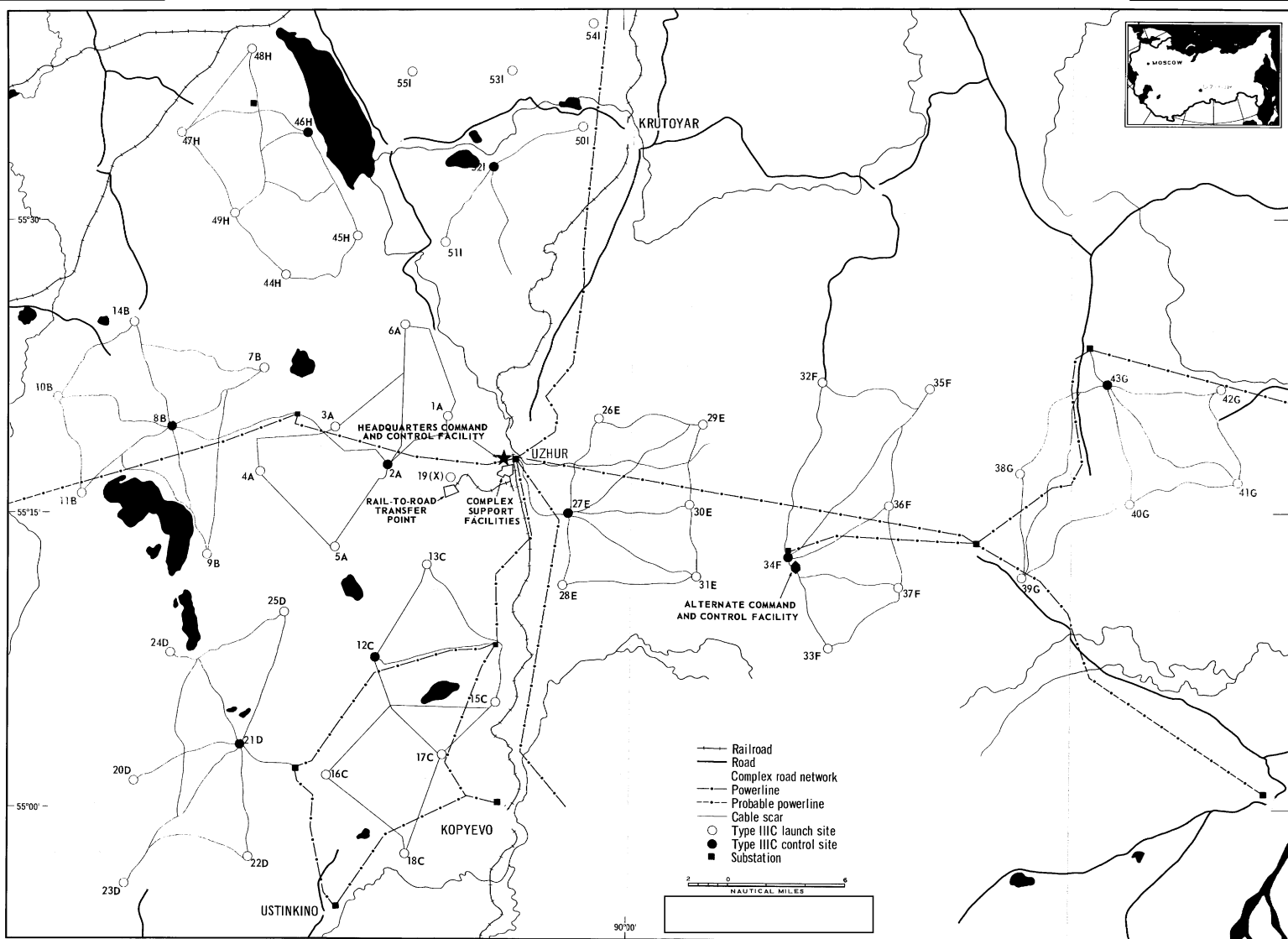


FIGURE 7. UZHUR ICBM COMPLEX, USSR

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Table 6. Data on Facilities at the Zhangji-Tube ICBM Complex

Facility	Completion or Current Status	Geographic Coords Lat Long	300 Chart
Zhangji-Tube ICBM Complex	--	40-14-00N 081-09-00E	17HL
HQ Com & control fac & receiving fac	--	40-12-25N 081-11-16E	17HL
Alternate command & control fac (23 mi N of HCC)	Later	40-36-21N 081-08-00E	17HL
Transmitting Facility (18 mi SSW of HCC)	--	40-00-01N 080-47-01E	17HL
Complex Support fac	--	40-12-17N 081-10-45E	17HL
Rail-to-road transfer point	--	40-11-55N 081-08-11E	17HL

Launch Group & Site	Type	Alt. msh	Geographic Coords Lat Long	300 Chart	Approx Elevation (meters)	Launch Group & Site	Type	Alt. msh	Geographic Coords Lat Long	300 Chart	Approx Elevation (meters)
Group A											
1A*	IIIC		40-11-42N 080-59-47E	17HL	518 1,700	27E	IIIC	315	44-54-04N 080-50-26E	17HL	670 2,200
2A	IIIC		40-16-28N 080-55-48E	17HL	488 1,600	28E	IIIC	315	44-54-48N 080-45-09E	17HL	070 2,200
3A	IIIC		40-12-30N 080-53-50E	17HL	488 1,600	29E	IIIC	315	44-56-16N 080-41-44E	17HL	702 2,300
4A	IIIC		40-10-53N 081-06-04E	17HL	518 1,700	30E*	IIIC	315	44-52-34N 080-50-36E	17HL	610 2,000
5A	IIIC		40-06-47N 081-03-30E	17HL	518 1,700	31E	IIIC	315	44-54-30N 080-36-48E	17HL	610 2,000
6A	IIIC		40-04-22N 080-57-51E	17HL	518 1,700	32E	IIIC	315	44-06-55N 080-44-51E	17HL	610 2,000
Group B											
7B	IIIC		40-18-18N 080-59-48E	17HL	457 1,500	33E*	IIIC	315	40-36-15N 081-08-16E	17HL	366 1,000
8B	IIIC		40-22-38N 080-57-27E	17HL	487 1,600	34E	IIIC	315	40-40-07N 081-12-53E	12HL	396 1,300
9B	IIIC		40-25-12N 080-46-55E	17HL	488 1,600	35E	IIIC	315	40-47-06N 081-18-27E	12HL	396 1,300
10B*	IIIC		40-21-37N 080-58-29E	17HL	457 1,500	36E	IIIC	315	40-45-06N 081-03-53E	12HL	396 1,300
11B	IIIC		40-17-44N 081-05-53E	17HL	488 1,600	37E	IIIC	315	40-25-12N 081-02-17E	12HL	437 1,500
12B	IIIC		40-22-31N 081-06-30E	17HL	396 1,300	38E	IIIC	315	40-34-43N 081-16-30E	17HL	396 1,300
Group C											
13C	IIIC		40-00-40N 081-14-00E	17HL	488 1,600	39C	IIIC	Uncd	40-34-37N 081-35-53E	17HL	488 1,600
14C*	IIIC		40-10-00N 081-21-20E	17HL	488 1,600	40C*	IIIC	Uncd	40-28-08N 081-36-59E	17HL	488 1,600
15C	IIIC		40-08-38N 081-28-53E	17HL	488 1,600	41C	IIIC	Uncd	40-26-55N 081-41-25E	17HL	488 1,600
16C	IIIC		40-03-12N 081-33-06E	17HL	488 1,600	42C	IIIC	Uncd	40-26-55N 081-27-05E	17HL	488 1,600
17C	IIIC		40-01-00N 081-39-25E	17HL	440 2,100	43C	IIIC	Uncd	40-25-23N 081-35-25E	17HL	488 1,600
18C	IIIC		40-05-27N 081-13-55E	17HL	810 2,000	44C	IIIC	Uncd	40-31-37N 081-45-14E	17HL	488 1,600
Group D											
19D	IIIC	315	40-01-38N 081-04-03E	17HL	810 2,000	45H	IIIC	Uncd	40-14-30N 081-41-58E	17HL	488 1,600
20D	IIIC	315	40-06-20N 081-10-22E	17HL	810 2,000	46H	IIIC	Uncd	40-08-32N 081-41-59E	17HL	488 1,600
21D*	IIIC	315	40-57-21N 081-09-32E	17HL	810 2,000	47H	IIIC	Uncd	40-09-45N 081-49-27E	17HL	488 1,600
22D	IIIC	315	40-53-45N 081-04-02E	17HL	810 2,000	48H	IIIC	Uncd	40-11-27N 082-09-04E	17HL	488 1,600
24D	IIIC	315	40-55-54N 080-05-36E	17HL	702 2,300	49H	IIIC	Uncd	40-16-27N 081-53-12E	17HL	488 1,600
26D	IIIC	315	40-48-41N 081-02-06E	17HL	702 2,400	Training site 22X		IIIC			
						40-12-08N 081-07-44E	17HL				488 1,600

*Control site.

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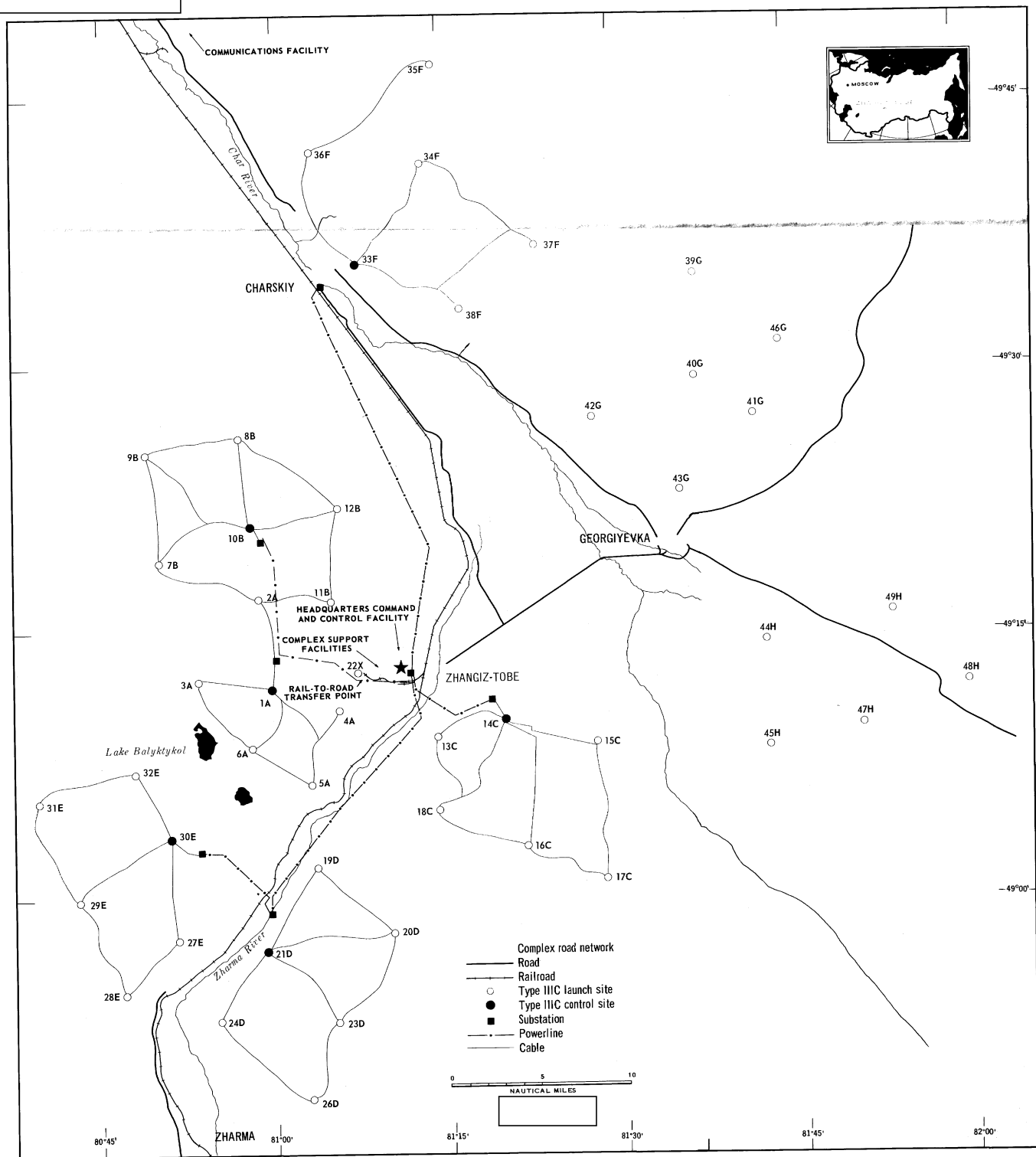
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Imeni Gastello ICBM Complex

The Imeni Gastello ICBM Complex (Figure 5 and Table 3), in the south-central part of the steppe region of western Siberia, approximately 300 nm southeast of Magnitogorsk, has a total of 48 launch sites. These sites are in eight launch groups, designated A through H. Since the latest report⁵ two of these launch groups have been identified -- the G group []

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[] and the H group []

The E group was completed [] bringing the number of completed groups to five. The F group when observed [] was in a very late stage of construction.

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The alternate command and control facility is adjacent to launch site 34F and is in the midstage of construction.

Kartaly ICBM Complex

The Kartaly ICBM Complex⁶ (Figure 6 and Table 4), in the west-central part of the steppe region approximately 60 nm east-southeast of Magnitogorsk, has a total of 36 launch sites in six groups, designated A through F. No new groups have been identified at this complex []. The reason for the lack of a new group start, plus the slower than usual construction pace for the latest two groups at this complex, is not known.

Five of the six groups are complete, with the E group being completed []. Previously five sites were identified in the F group [] two more sites were identified in the F group and one (43F) of the previously identified sites was abandoned. The F group now has the full complement of six sites, which are in the midstage of construction.

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A miniature type IIIC site, approximately one-fifth the size of a normal site, was identified adjacent to the training site, 27X []

The alternate command and control facility is adjacent to launch site 32E and is in the midstage of construction.

Uzhur ICBM Complex

The Uzhur ICBM Complex (Figure 7 and Table 5), in the southeastern mountain region of western Siberia, is the easternmost of the six SS-9 complexes. The complex has a total of 54 launch sites in nine launch groups, designated A through I. Since the latest report,⁷ the I group was identified []

The H group was completed [] bringing the number of completed groups to eight.

The alternate command and control facility, adjacent to launch site 34F, was complete []

Zhangiz-Tobe ICBM Complex

The Zhangiz-Tobe ICBM Complex (Figure 8 and Table 6) is approximately 80 nm southeast of Semipalatinsk in the high steppe region of northeastern Soviet central Asia. Presently 47 launch sites are identified in eight launch groups, with only five sites thus far identified in the H group. These launch groups are designated A through H. Since the latest report⁸ two groups, G and H, have been identified []. The E group was completed [] bringing the number of completed launch groups to five. The F group was in a late stage of construction when last observed []

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The alternate command and control facility is adjacent to launch site 33F and is in a late stage of construction.

REFERENCES

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DOCUMENTS

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- | | | | |
|----------|------------|--|------------|
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| 2. NPIC. | [redacted] | <i>Summary of HF Communications Facilities Associated with the Soviet Rocket Forces ICBM Command and Control Structure, Aug 69 (TOP SECRET</i> | [redacted] |
| 3. NPIC. | [redacted] | <i>Aleysk ICBM Complex, USSR, Apr 69 (TOP SECRET</i> | [redacted] |
| 4. NPIC. | [redacted] | <i>Dombrovskiy ICBM Complex, USSR, May 69 (TOP SECRET</i> | [redacted] |
| 5. NPIC. | [redacted] | <i>Imeni Gastello ICBM Complex, USSR, Apr 69 (TOP SECRET</i> | [redacted] |
| 6. NPIC. | [redacted] | <i>Kartaly ICBM Complex, USSR, Jun 69 (TOP SECRET</i> | [redacted] |
| 7. NPIC. | [redacted] | <i>Uzhur ICBM Complex, USSR, Apr 69 (TOP SECRET</i> | [redacted] |
| 8. NPIC. | [redacted] | <i>Zhangzi-Tobe ICBM Complex, USSR, Apr 69 (TOP SECRET</i> | [redacted] |

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- NPIC. [REDACTED] *Soviet ICBM Headquarters Command and Control Facilities*, Dec 68 (TOP SECRET [REDACTED])

REQUIREMENT

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